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CIA/PIR-8/64
March 1964

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CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE REPORT

SOVIET-TYPE SAM INSTALLATIONS, WACS 160, 161, 162, 163, 164, 165, AND 166

25X

Published and Disseminated By
NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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PREFACE

This is the fourth in a series of reports, prepared in response to CIA requirement C-RR3-80,733, presenting locational and other pertinent information on all Soviet-type surface-to-air missile (SAM) installations. 1-3/ Installations included are SAM launch sites (SA-1, SA-2, SA-3, and SA-0), antimissile-missile activities, SAM support facilities, SAM R & D and training facilities, and unidentified installations, possibly SAM-related. The information will be presented by World Aeronautical Chart (WAC), and within each WAC by SAM defense area, as determined from photography and collateral sources. When the defense function of an installation has not been determined, this will be so indicated. Where no installations have been identified in a WAC area, that WAC will be omitted.

INTRODUCTION

This report presents information on all Soviet-type SAM installations located in the areas covered by WACS 160, 161, 162, 163, 164, 165, and 166 which have been identified on photography. The cutoff date for this information is 13 February 1964. Figure 1 shows all the WAC areas, except Cuba, which will be covered in this series; those in red are covered in this report. WACs covered in the previous reports are outlined in red, and the report number is indicated. Diagrams of the configurations of the common types of SAM installations are presented in Figure 2. Information for each WAC is shown in a table (Tables 1-7), which gives detailed data, and a map (Figures 3-9), which indicates the location and type of each SAM installation.

Explanations of the columnar headings used in the tables are as follows:

Item--Given in a numerical sequence for each WAC, with numbers assigned to installations arbitrarily, and keyed to the accompanying WAC.

Name, Site Designator, BE Number--in accordance with the TDI. Absence of any of this information indicates that it was not available at the time of publication.

Coordinates--Given in degrees, minutes, and seconds, and plotted from series 200 US Air Target Charts unless otherwise indicated.

Country & Map Reference--BE country codes used. Map reference is to the Air Target Chart sheet number (scale 1:200,000) unless otherwise indicated.

Type & Configuration--Indicates the type of SAM installation and its configuration as illustrated in Figure 2.

Mission & Date First Appears--Gives the number and date of the mission on which the installation was first sighted.

Mission & Date Installation Negated--Refers to the latest [redacted] photography on which it has been established that construction of the installation had not been started. Absence of any notation indicates that this information could not be determined. 25X

Remarks--Covers items of special or unusual interest.

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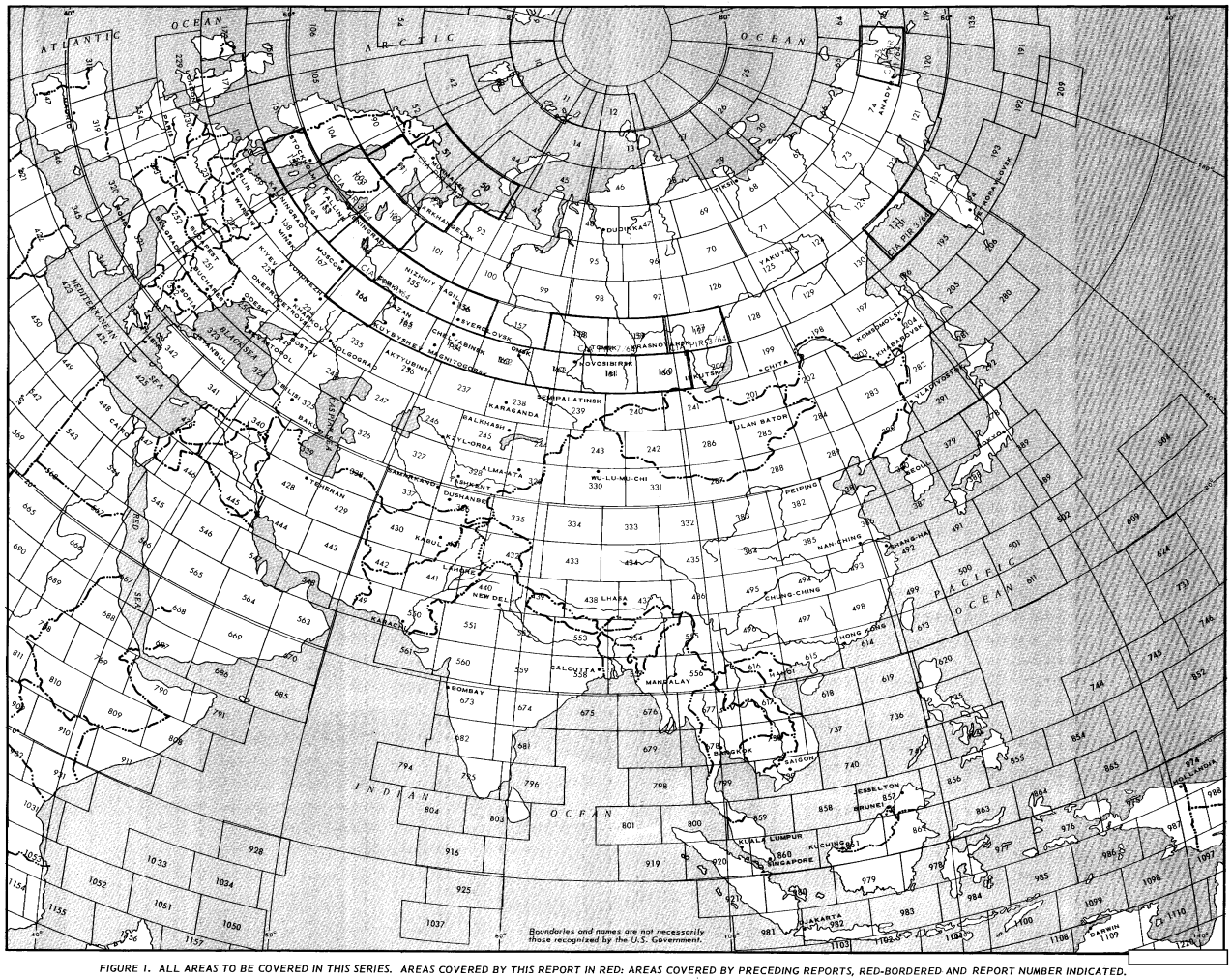
ATLANTIC OCEAN
ARCTIC OCEAN
PACIFIC OCEAN
INDIAN OCEAN
Boundaries and names are not necessarily those recognized by the U.S. Government.

FIGURE 1. ALL AREAS TO BE COVERED IN THIS SERIES. AREAS COVERED BY THIS REPORT IN RED: AREAS COVERED BY PRECEDING REPORTS, RED-BORDERED AND REPORT NUMBER INDICATED.

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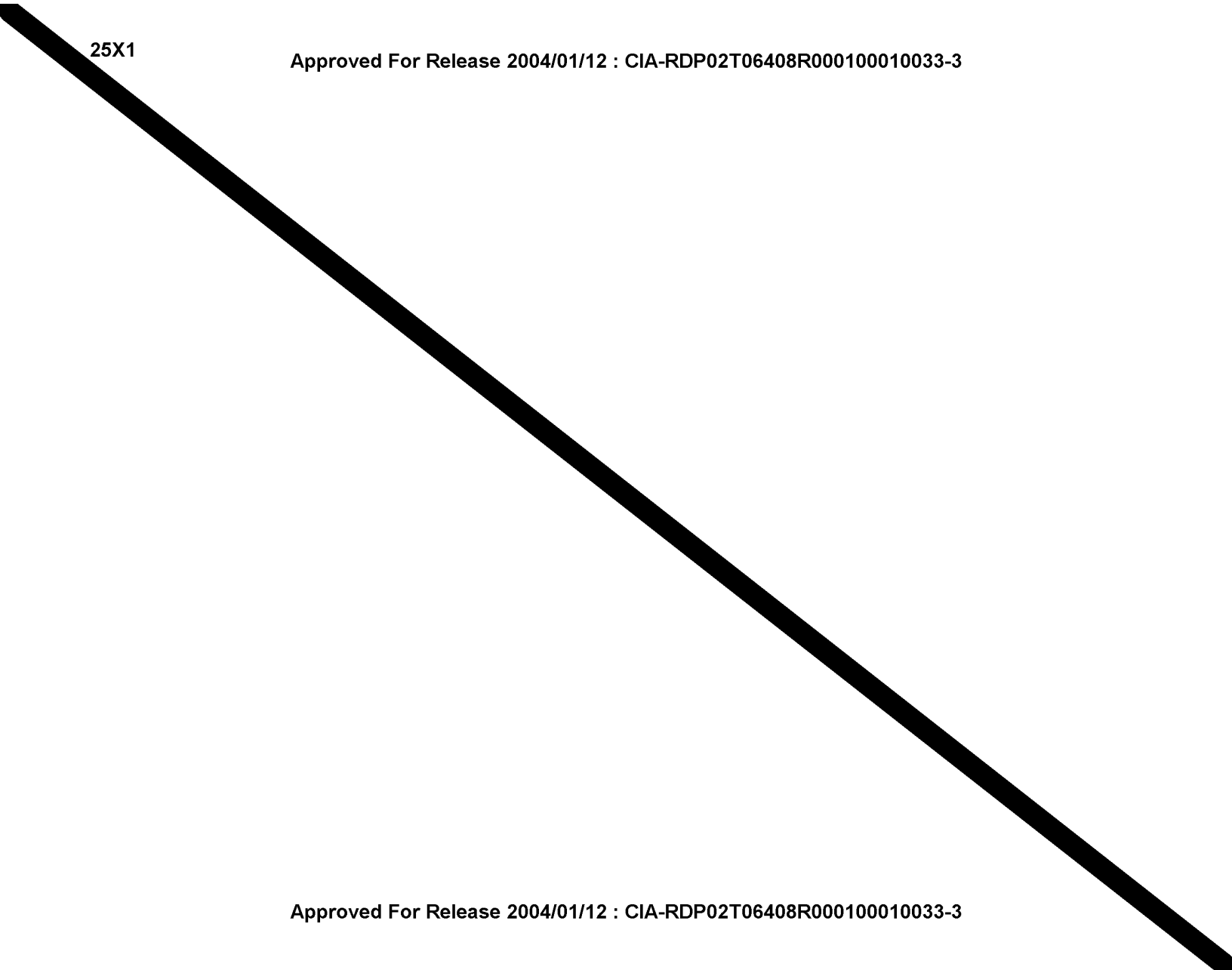

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Table 1. SAM Installations on WAC 160

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
	Krasnoyarsk/Dodonovo SAM Defenses (						arms, synthetic rubber, steel, heavy equipment, chemical, and explosives production at Krasnoyarsk; missile static test facility at Krasnoyarsk)
1	Krasnoyarsk SAM Site B13-2	55-50-20N 93-15-00E	UR 0160-1	SA-2, link			

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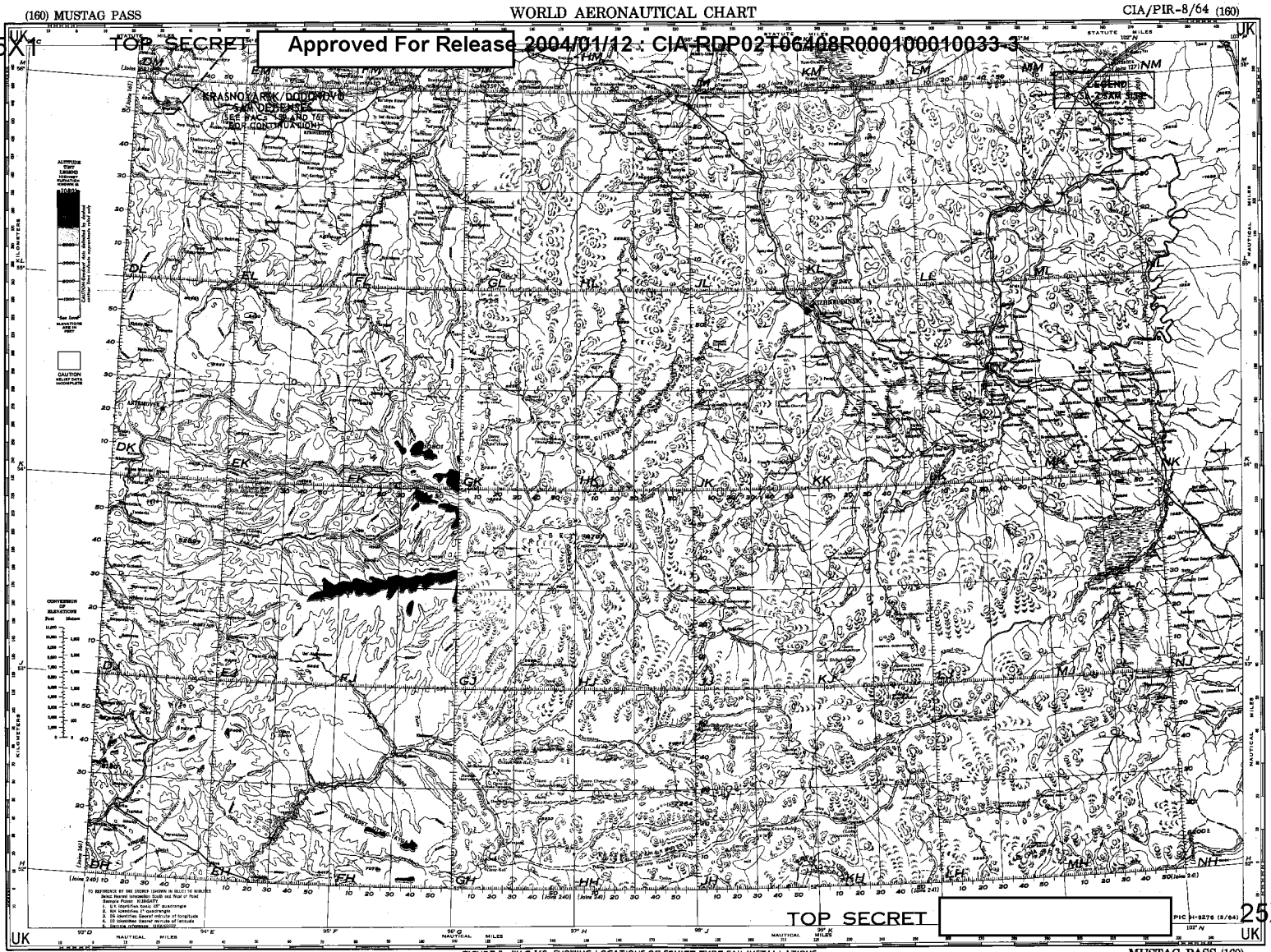

FIGURE 3. WAC 160, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 2. SAM Installations on WAC 161

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Barnaul SAM Defenses (in defense of major industrial center: heavy machinery, equipment, and machine parts production, railroad car manufacturing and repair)							
1	Barnaul SAM Site B11-2,	53-18-20N 84-07-55E	UR 0161-16	SA-2, link			
B. Kemerovo SAM Defenses (in defense of important coal and chemical production in Kuznetsk Basin: coke, nitro, and ammunition plants)							
2	Kemerovo SAM Site B32-2,	55-31-04N 85-43-20E	UR 0161-1	SA-2, link			
3	Kemerovo SAM Site B03-2,	55-33-10N 86-14-00E	UR 0161-2	SA-2, prob link			
4	Kemerovo SAM Support Facility	55-17-40N 86-03-00E	UR 0161-2	Type II (square)			
5	Kemerovo SAM Site B15-2,	55-13-29N 86-12-35E	UR 0161-2	SA-2, link			
C. Novokuznetsk SAM Defenses (in defense of second largest metallurgical center in USSR: ferroalloy, steel, coke, aluminum, steel products production)							
6	Novokuznetsk SAM Site B34-2,	53-59-00N 86-58-00E	UR 0161-12	SA-2, link			
7	Novokuznetsk SAM Site B05-2,	53-54-00N 87-22-40E	UR 0161-12	SA-2, prob link			
8	Novokuznetsk SAM Support Facility	53-43-00N 87-00-00E	UR 0161-12	Type II (square)			
9	Novokuznetsk SAM Site B27-2,	53-43-00N 86-42-45E	UR 0161-12	SA-2, link			
D. Nazarovo SAM Defenses (in defense of Nazarovo Thermal Power Plant GRES)							
10	Nazarovo SAM Site B26-2,	55-57-55N 90-01-50E	UR 0161-4	SA-2, star			
11	Nazarovo SAM Site B16-2,	55-52-00N 90-33-10E	UR 0161-4	SA-2, prob link			
E. Krasnoyarsk/Dodonovo SAM Defenses				arms, synthetic rubber, steel, heavy equipment, chemical, and explosives production at Krasnoyarsk; missile static test facility at Krasnoyarsk)			
12	Nazarovo SAM Site D11-2	55-54-40N 92-26-40E	UR 0161-5	SA-2, link			
F. Defense Role Undetermined							
13	Leninsk-Kuznetskiy SAM Site A27-2,	54-39-05N 86-02-21E	UR 0161-7	SA-2, configuration undetermined			This site was unrevetted when seen on Mission It is not visible on good quality, snow-covered photography of

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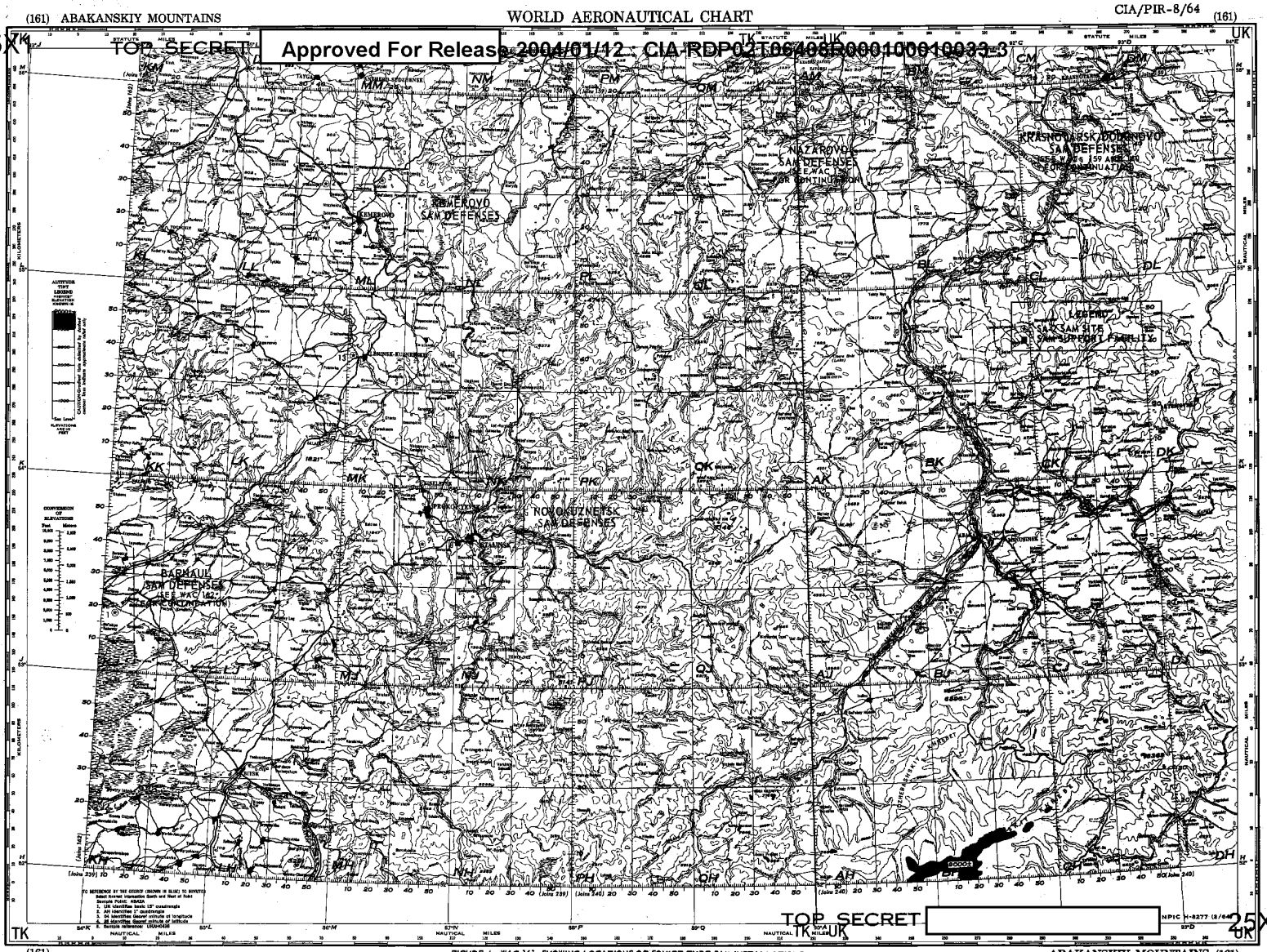

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FIGURE 4. WAC 161, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 3. SAM Installations on WAC 162

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Novosibirsk SAM Defenses (in defense of major industrial, transportation, and communications center: arms, ammunition, steel, light metals, vehicle and aircraft assembly, machine tool and heavy equipment, uranium feed materials; ICBM launch complex)							
1	Novosibirsk SAM Site B01-2,	55-16-30N 82-59-30E	UR 0162-10	SA-2, link			
2	Novosibirsk SAM Site B28-2,	55-02-50N 82-37-07E	UR 0162-10	SA-2, link			
3	Novosibirsk SAM Support Facility,	55-06-00N 82-50-55E	UR 0162-10	Type I (rectangular)			
4	Novosibirsk SAM Site A33-2,	55-05-15N 82-51-20E	UR 0162-10	SA-2, prob fan			
5	Novosibirsk SAM Site B08-2,	55-04-20N 83-16-10E	UR 0162-10	SA-2, link			
6	Novosibirsk SAM Site A17-2,	54-54-15N 83-00-10E	UR 0162-10	SA-2, link			
B. Barnaul SAM Defenses (in defense of major industrial center: heavy machinery, equipment, and machine parts production; railroad car manufacturing and repair)							
7	Barnaul SAM Site B28-2,	53-21-00N 83-27-30E	UR 0162-20	SA-2, star			
8	Barnaul SAM Support Facility	53-18-50N 83-38-45E	UR 0162-20	Type II (square)			
9	Barnaul SAM Site B20A-2	53-11-10N 83-42-05E	UR 0162-20	SA-2, prob link			
10	Barnaul SAM Site B20-2,	53-08-40N 83-41-05E	UR 0162-20	SA-2, star			

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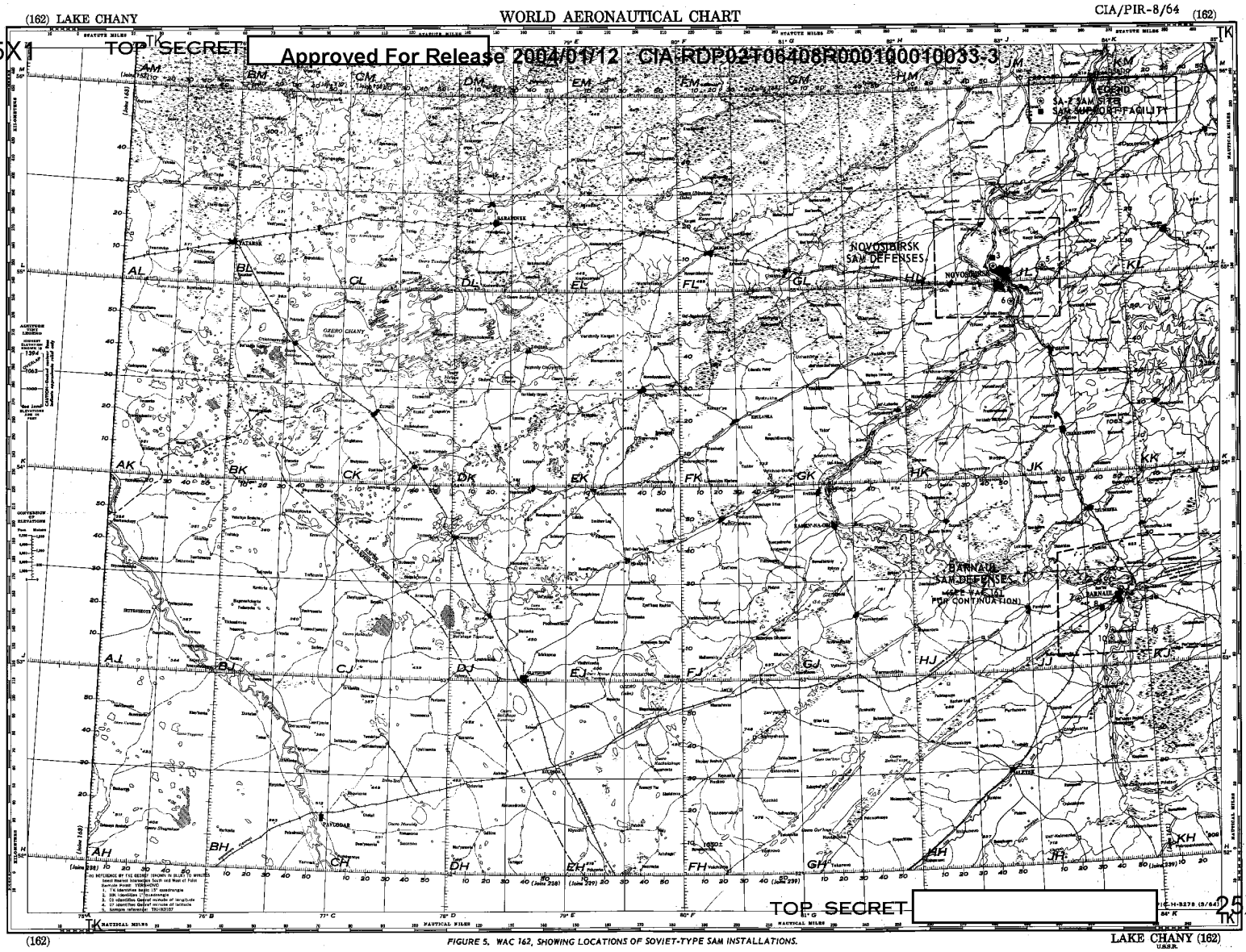

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FIGURE 5, WAC 162, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 4. SAM Installations on WAC 163

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
Omsk SAM Defenses (in defense of major industrial and transportation center: aircraft engines, parts, airframe production; tires, armored vehicles and rubber production)							
1	Omsk SAM Site B34-2,	55-07-20N 73-17-10E	UR 0163-10	SA-2, link			
2	Omsk SAM Site B26-2,	54-55-10N 73-01-30E	UR 0163-9	SA-2, link			
3	Omsk SAM Site B17-2,	54-46-00N 73-28-20E	UR 0163-10	SA-2, link			
4	Omsk SAM Site A13-2,	54-54-10N 73-32-25E	UR 0163-10	SA-2, star			
5	Omsk SAM Support Facility,	54-59-45N 73-32-05E	UR 0163-10	Type I (rectangular)			
6	Omsk SAM Site B09-2,	54-59-35N 73-41-30E	UR 0163-10	SA-2, link			

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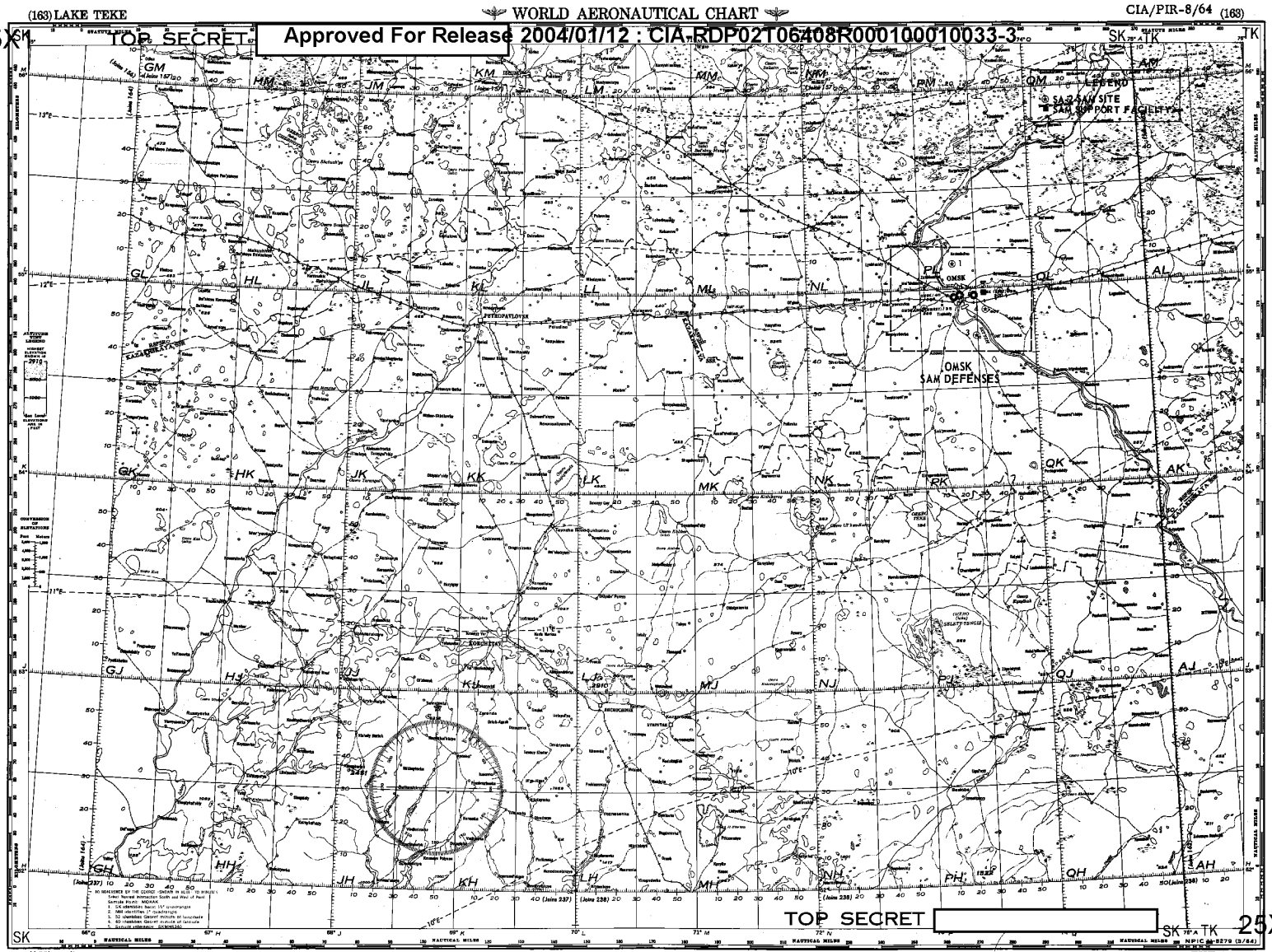

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Table 5. SAM Installations on WAC 164

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Magnitogorsk SAM Defenses (in defense of largest metallurgical combine in the USSR)							
1	Magnitogorsk SAM Site B29-2,	53-27-00N	58-46-30E	UR 0164-16	SA-2, link		
2	Magnitogorsk SAM Site B02-2,	53-36-50N	59-06-05E	UR 0164-17	SA-2, star		
3	Magnitogorsk SAM Site B21-2,	53-15-00N	58-58-30E	UR 0164-17	SA-2, star		
4	Magnitogorsk SAM Support Facility,	53-21-00N	59-04-00E	UR 0164-17	Type I (rectangular)		
5	Magnitogorsk SAM Site B11-2,	53-22-03N	59-20-39E	UR 0164-17	SA-2, star		
C. Zlatoust/Chelyabinsk SAM Defenses (in defense of major central Ural Mountains industrial area: arms, metals, machinery, chemicals and precision instruments production at Chelyabinsk; steel, abrasives, armaments, instruments production, and probably SS-1 assembly at Zlatoust; light industry at Miass; these SAM defenses adjoin the Kasli/Kyshtym SAM defenses which provide protection on the north side of this area)							
11	Zlatoust SAM Site B33-2,	55-24-50N	59-25-20E	UR 0164-2	SA-2, star		
12	Zlatoust SAM Support Facility,	55-13-00N	59-44-00E	UR 0164-2	Type I (rectangular)		
13	Zlatoust SAM Site B25-2,	55-05-50N	59-18-30E	UR 0164-7	SA-2, star		
14	Zlatoust SAM Site B18-2,	54-56-30N	59-41-00E	UR 0164-7	SA-2, star		
15	Miass SAM Site B15-2	54-49-40N	60-15-00E	UR 0164-7	SA-2, star		This site overlaps an unoccupied, unimproved site. It appears that the site was moved slightly before it was improved and finished.
16	Miass SAM Site C11-2,	54-53-10N	60-48-20E	UR 0164-8	SA-2, star		
17	Chelyabinsk SAM Site B20-2,	54-54-50N	61-16-30E	UR 0164-8	SA-2, star		
18	Chelyabinsk SAM Site B17-2,	54-53-10N	61-34-40E	UR 0164-8	SA-2, link		
19	Chelyabinsk SAM Support Facility,	55-04-10N	61-22-40E	UR 0164-8	Type I (rectangular)		
20	Chelyabinsk SAM Site B11-2,	55-05-30N	61-52-40E	UR 0164-8	SA-2, star		
21	Chelyabinsk SAM Site B05-2,	55-21-10N	61-46-00E	UR 0164-3	SA-2, star		
22	Chelyabinsk SAM Site C36-2,	55-30-40N	61-20-00E	UR 0164-3	SA-2, link		
23	Kyshtym SAM Site B16-2,	55-30-00N	60-43-10E	UR 0164-3	SA-2, link		
D. Kyshtym/Kasli SAM Defenses							
24	Kyshtym SAM Site B12-2	55-35-50N	61-02-40E	UR 0164-3	SA-2, star		
25	Kyshtym SAM Support Facility,	55-36-50N	60-36-25E	UR 0164-3	Type I (rectangular)		
26	Kyshtym SAM Site A23-2,	55-40-20N	60-28-40E	UR 0164-2	SA-2, link		
27	Kyshtym SAM Site B05-2,	55-50-20N	60-47-55E	UR 0164-3	SA-2, link		The perimeter road at this site has an irregular pattern.
28	Kasli SAM Support Facility,	55-53-30N	60-41-45E	UR 0164-3	Type I (rectangular)		
E. Shadrinsk SAM Defenses (in defense of Shadrinsk ICBM Complex)							
29	Kurgan SAM Site C35-2,	55-54-20N	65-05-20E	UR 0164-5	SA-2, star		

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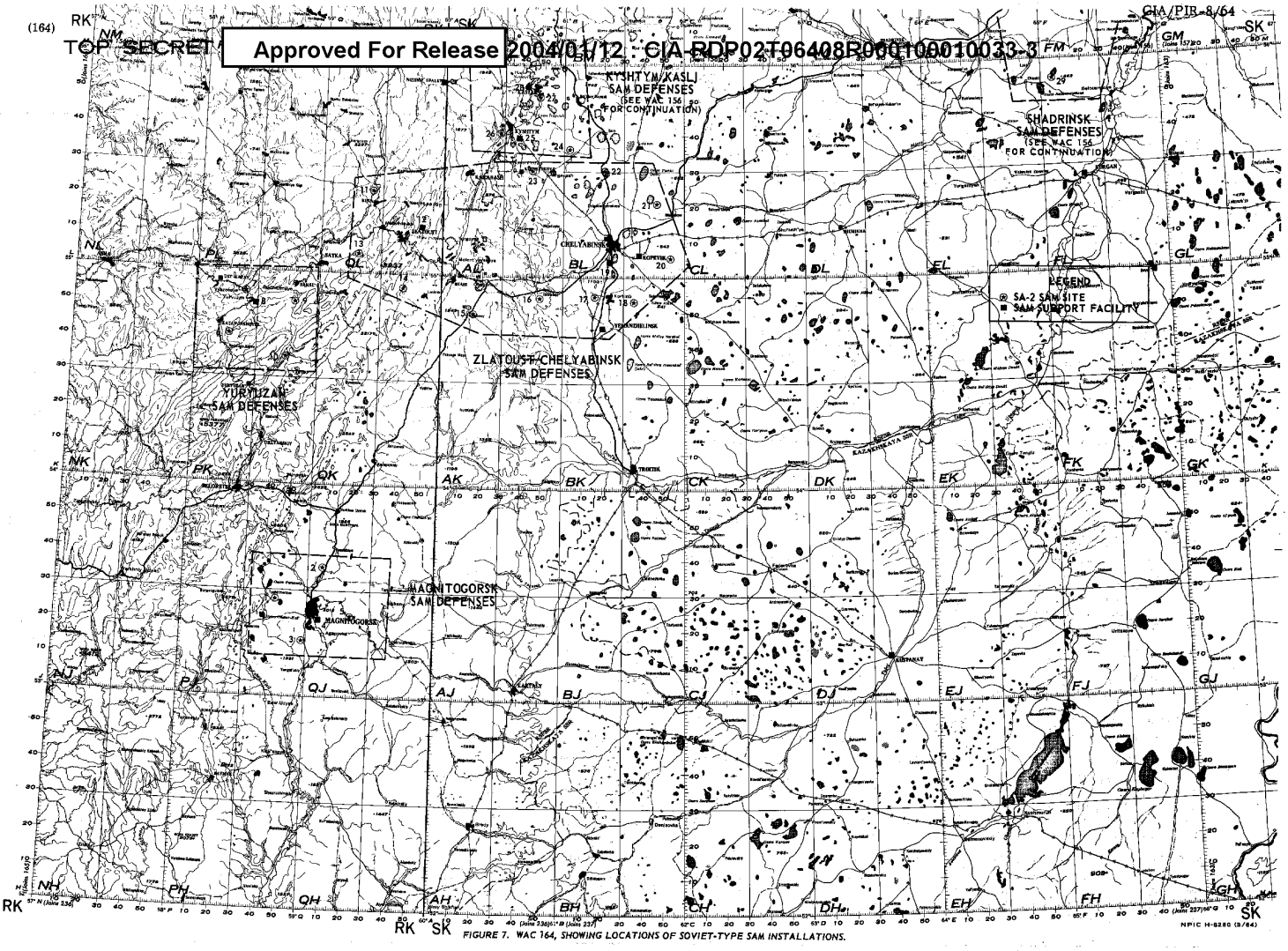

FIGURE 7. WAC 164, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 6. SAM Installations on WAC 165

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Kazan SAM Defenses (in defense of Kazan: production center for aircraft parts, engines and airframes, optical equipment, explosives, synthetic rubber, and chemicals)							
1	Kazan SAM Site B30-2,	55-53-30N 48-48-10E	UR 0165-1	SA-2, link			
2	Kazan SAM Site A19-2,	55-41-00N 49-06-30E	UR 0165-1	SA-2, star			
3	Kazan SAM Support Facility,	55-48-00N 49-13-00E	UR 0165-1	Type I (rectangular)			
4	Kazan SAM Site B08-2,	55-49-05N 49-27-10E	UR 0165-1	SA-2, star			
B. Ulyanovsk SAM Defenses (in defense of Uaz Automobile Plant; ammunition, machine tool, aircraft instruments, and POL production; nuclear power plant)							
5	Ulyanovsk SAM Site B27-0,	54-18-00N 48-01-10E	UR 0165-11	SA-0, Category I			
6	Ulyanovsk SAM Site B08-0,	54-22-50N 48-44-30E	UR 0165-11	SA-0, Category I			
C. Kuybyshev/Zhigulevsk Dam SAM Defenses (in defense of a strategic dam and hydroelectric power plant at Zhigulevsk and the industrial complex at Kuybyshev; reported alternate capital of USSR; missile and aircraft test and production; arms, bearings, tools, optics, POL, and vehicle parts)							
7	Kuybyshev SAM Site D32-2,	53-38-00N 49-20-40E	UR 0165-11	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
8	Kuybyshev SAM Site C34-2,	53-37-20N 49-48-55E	UR 0165-12	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
9	Kuybyshev SAM Site D31-2,	53-31-45N 49-20-50E	UR 0165-16	SA-2, star			, a revetment was built almost completely around this SAM site.
10	Kuybyshev SAM Support Facility 2,	53-30-25N 49-31-35E	UR 0165-16	Type I (rectangular)			
11	Kuybyshev SAM Site C32-2,	53-31-55N 49-39-10E	UR 0165-17	SA-2, star			
12	Kuybyshev SAM Site D29-2,	53-22-15N 49-15-40E	UR 0165-16	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
13	Kuybyshev SAM Site C29-2,	53-21-15N 49-25-00E	UR 0165-16	SA-2, star			
14	Kuybyshev SAM Site C31-2,	53-23-23N 49-38-20E	UR 0165-16	SA-2, star			
15	Kuybyshev SAM Site C02-2,	53-31-20N 50-16-05E	UR 0165-17	SA-2, star			
16	Kuybyshev SAM Support Facility 1,	53-17-10N 50-17-20E	UR 0165-17	Type I (rectangular)			This is a modified rectangular support facility.
17	Kuybyshev SAM Site B07-2,	53-18-25N 50-34-20E	UR 0165-17	SA-2, star			
18	Kuybyshev SAM Site C27-2,	53-09-45N 49-29-35E	UR 0165-16	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
19	Kuybyshev SAM Site	52-56-15N 49-36-40E	UR 0165-16	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
20	Kuybyshev SAM Site B20-2,	52-59-10N 50-00-50E	UR 0165-17	SA-2, star			
21	Kuybyshev SAM Site B13-2,	53-02-10N 50-29-00E	UR 0165-17	SA-2, star			
D. Balakovo SAM Defenses							
22	Balakovo SAM Site B06-0,	52-10-40N 48-05-40E	UR 0165-21	SA-0, Category I			
E. Ufa SAM Defenses (in defense of aircraft engine, POL, chemicals production; large transportation center; suspect missile static test facility)							
23	Ufa SAM Site C03-2,	55-05-50N 56-19-00E	UR 0165-10	SA-2, link			
24	Ufa SAM Site B31-2,	54-52-25N 55-36-00E	UR 0165-10	SA-2, link			
25	Ufa SAM Support Facility,	54-43-25N 55-46-20E	UR 0165-10	Type II (square)			
26	Ufa SAM Site C24-2,	54-31-20N 55-24-20E	UR 0165-10	SA-2, link			
27	Ufa SAM Site B17-2,	54-30-45N 56-02-00E	UR 0165-10	SA-2, link			
F. Sterlitamak SAM Defenses (in defense of cement, chemicals, explosives, and machine tool production facilities; static test facility)							
28	Sterlitamak SAM Site C35-2,	53-58-30N 55-50-40E	UR 0165-15	SA-2, link			
29	Sterlitamak SAM Support Facility,	53-39-25N 55-49-55E	UR 0165-15	Type II (square)			
30	Sterlitamak SAM Site C24-2,	53-24-05N 55-25-15E	UR 0165-20	SA-2, prob link			
31	Sterlitamak SAM Site C19-2,	53-08-15N 55-50-45E	UR 0165-20	SA-2, star			

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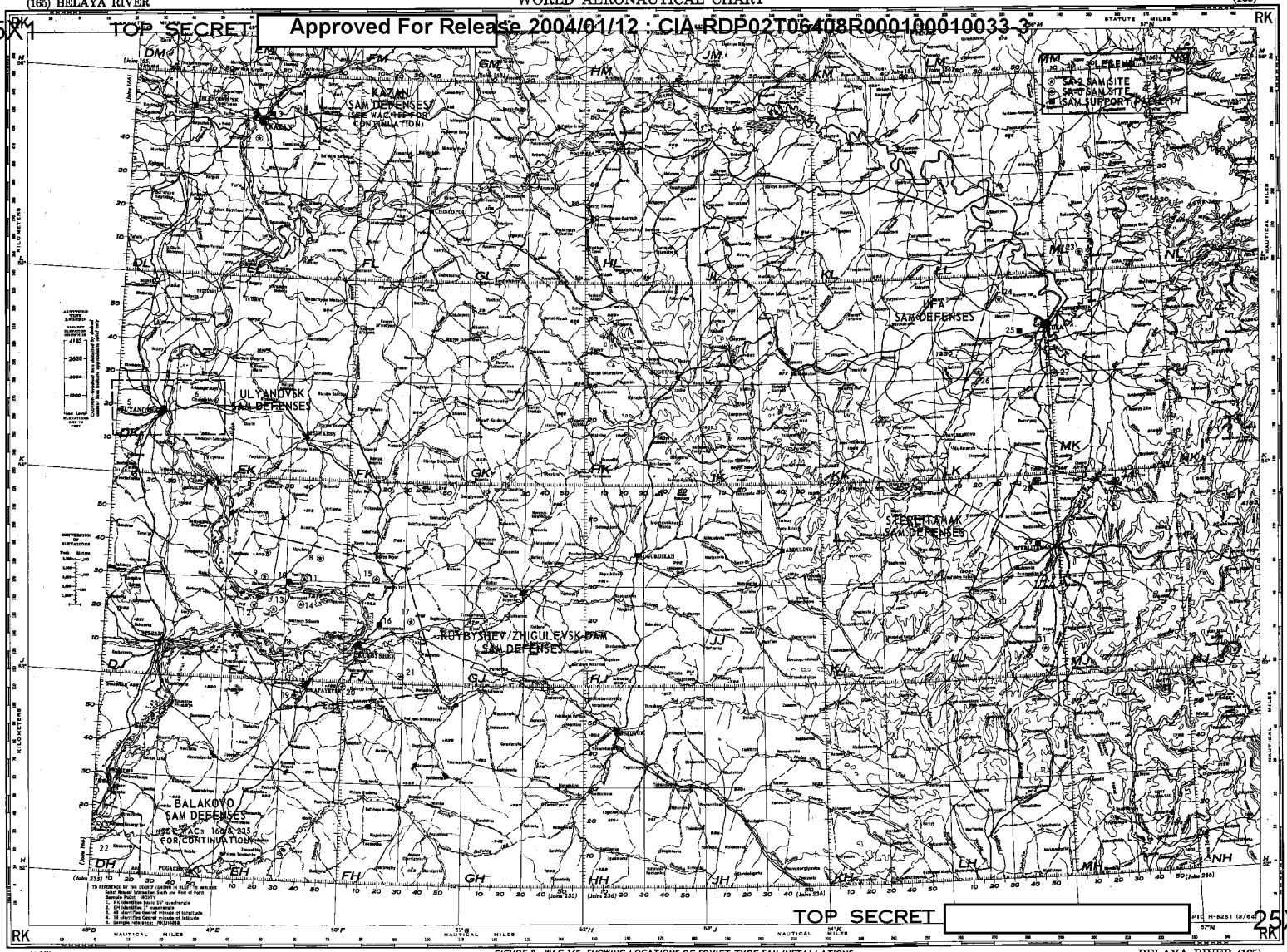

FIGURE 8. WAC 165, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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Table 7. SAM Installation on WAC 166

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Tambov SAM Defenses (in defense of Tambov Regional Military Storage Installation)							
1	Tambov SAM Site A25-2, [redacted]	52-40-00N 41-17-20E	UR 0166-22	SA-2, link			
2	Tambov SAM Site C21-2, [redacted]	52-22-50N 41-12-00E	UR 0166-22	SA-2, configuration undetermined			No internal road configuration is visible.
3	Tambov SAM Support Facility, [redacted]	52-26-28N 41-28-15E	UR 0166-22	Type II (square)			
4	Tambov SAM Site B13-2, [redacted]	52-33-20N 41-48-20E	UR 0166-22	SA-2, configuration undetermined			No internal road configuration is visible.
5	Tambov SAM Site C17-2, [redacted]	52-17-30N 41-38-30E	UR 0166-22	SA-2, link			
[redacted]							
C. Surovatikha SAM Defenses (in defense of Surovatikha Regional Military Storage Installation)							
13	Gorkiy SAM Site C21-2, [redacted]	55-49-10N 43-34-40E	UR 0166-3	SA-2, link			
14	Gorkiy SAM Site C17-2, [redacted]	55-50-00N 44-10-00E	UR 0166-3	SA-2, link			
15	Chernukha SAM Support Facility, [redacted]	55-44-40N 43-53-35E	UR 0166-3	Type II (square)			
16	Arzamas SAM Site B34-2, [redacted]	55-33-30N 43-39-40E	UR 0166-3	SA-2, link			
17	Arzamas SAM Site B05-2, [redacted]	55-33-30N 44-09-00E	UR 0166-3	SA-2, link			
D. Penza SAM Defenses (in defense of armament, machinery, instrument, computer, and ammunition production; POL storage; and transportation facilities)							
18	Penza SAM Site B01-2, [redacted]	53-23-35N 45-04-00E	UR 0166-19	SA-2, star			As seen on [redacted], a revetment was being placed around the entire site.
19	Penza SAM Site B26-0, [redacted]	53-06-15N 44-41-45E	UR 0166-19	SA-0, Category I			
20	Penza SAM Support Facility, [redacted]	53-12-00N 44-56-30E	UR 0166-19	Type I (rectangular)			
21	Penza SAM Site B08-0, [redacted]	53-16-40N 45-31-00E	UR 0166-19	SA-0, Category I			
22	Penza SAM Site B16-2, [redacted]	53-01-25N 45-10-40E	UR 0166-19	SA-2, star			A revetment completely surrounds this site, including the missile-hold revetments.
E. Balakovo SAM Defenses [redacted]							
23	Balakovo SAM Support Facility, [redacted]	52-00-25N 47-48-40E	UR 0166-25	Type I (rectangular)			
F. Defense Role Undetermined							
24	Orekhovo-Zuyevo SAM Site B09-3, [redacted]	55-49-30N 39-22-40E	UR 0166-1	SA-3, configuration undetermined			

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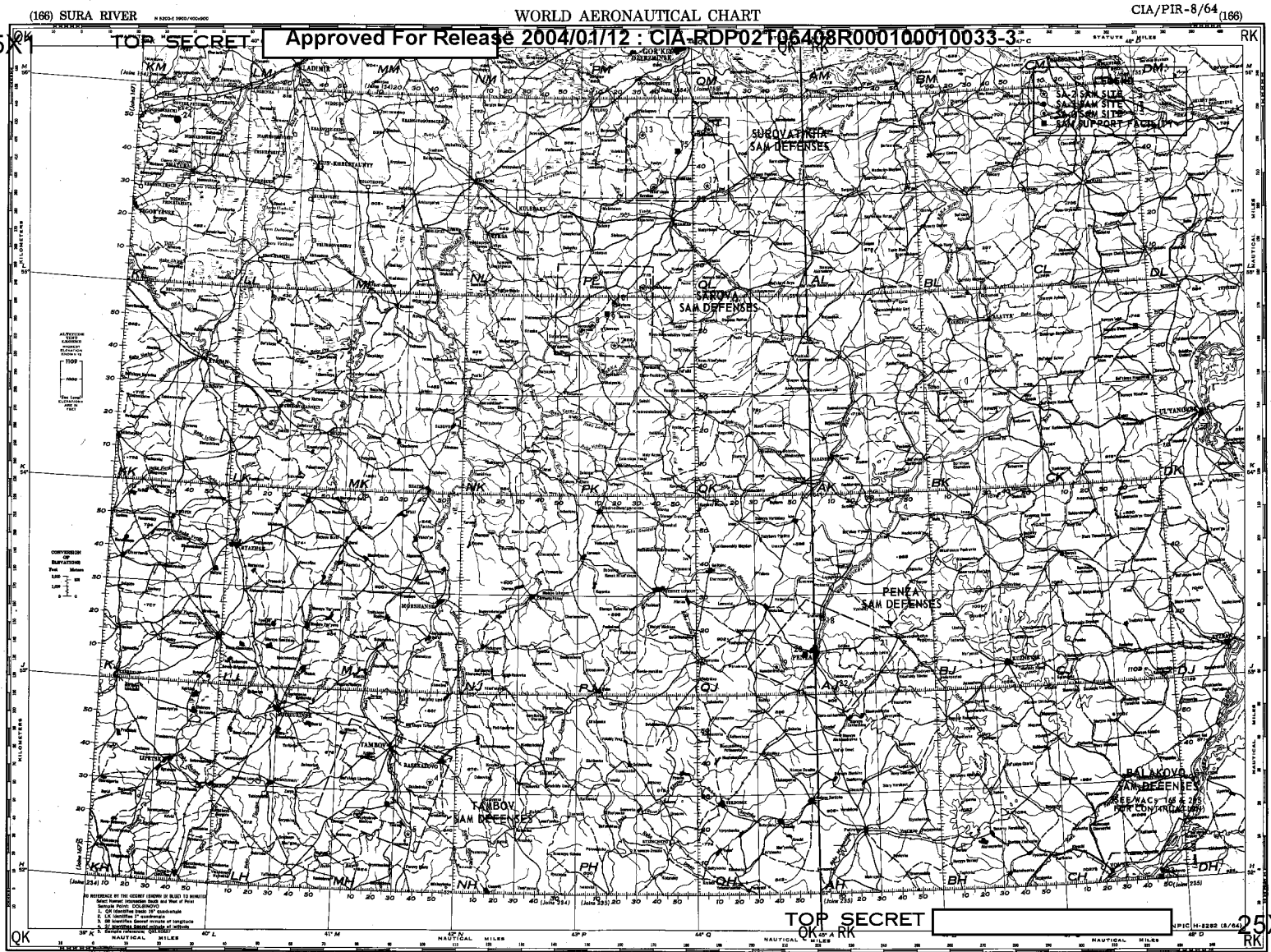

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REQUIREMENT

CIA. RR3-80,733

PROJECT

C-1580/63 (partial answer)

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